

#7

RAW SEQUENCE LISTING

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Application Serial Number: 10/500,888
Source: PCT/10
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RAW SEQUENCE LISTING

DATE: 12/14/2004

PATENT APPLICATION: US/10/500,888

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3 <110> APPLICANT: ERICKSON, JOHN W.
4     EISSENSTAT, MICHAEL
5     SILVA, ABELARDO
6     GULNIK, SERGEI
8 <120> TITLE OF INVENTION: RESISTANCE-REPELLENT RETROVIRAL PROTEASE INHIBITORS
10 <130> FILE REFERENCE: 38911-0006US1
12 <140> CURRENT APPLICATION NUMBER: 10/500,888
13 <141> CURRENT FILING DATE: 2004-07-07
15 <150> PRIOR APPLICATION NUMBER: PCT/US03/00254
16 <151> PRIOR FILING DATE: 2003-01-07
18 <150> PRIOR APPLICATION NUMBER: 60/383,575
19 <151> PRIOR FILING DATE: 2002-05-29
21 <150> PRIOR APPLICATION NUMBER: 60/344,788
22 <151> PRIOR FILING DATE: 2002-01-07
24 <160> NUMBER OF SEQ ID NOS: 68
26 <170> SOFTWARE: PatentIn Ver. 3.2
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29 <211> LENGTH: 99
30 <212> TYPE: PRT
31 <213> ORGANISM: Human immunodeficiency virus type 1
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35   1           5           10           15
37 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
38   20           25           30
40 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
41   35           40           45
43 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
44   50           55           60
46 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
47  65           70           75           80
49 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
50   85           90           95
52 Leu Asn Phe
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59 <213> ORGANISM: Human immunodeficiency virus type 1
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63   1           5           10           15
65 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
66   20           25           30

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68 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
69          35          40          45
71 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
72          50          55          60
74 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
75 65          70          75          80
77 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
78          85          90          95
80 Leu Asn Phe
84 <210> SEQ ID NO: 3
85 <211> LENGTH: 99
86 <212> TYPE: PRT
87 <213> ORGANISM: Human immunodeficiency virus type 1
89 <400> SEQUENCE: 3
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91 1          5          10          15
93 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
94          20          25          30
96 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
97          35          40          45
99 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
100          50          55          60
102 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
103 65          70          75          80
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108 Leu Asn Phe
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121 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
122          20          25          30
124 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
125          35          40          45
127 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
128          50          55          60
130 Glu Val Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
131 65          70          75          80
133 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
134          85          90          95
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140 <210> SEQ ID NO: 5
141 <211> LENGTH: 99
142 <212> TYPE: PRT
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145 <400> SEQUENCE: 5

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146 Pro Gln Ile Thr Leu Asn Gln Arg Pro Leu Val Thr Ile Lys Ile Gly
147   1           5           10           15
149 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
150           20           25           30
152 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
153           35           40           45
155 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
156           50           55           60
158 Glu Ile Cys Gly His Lys Thr Ile Gly Thr Val Leu Val Gly Pro Thr
159   65           70           75           80
161 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
162           85           90           95

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164 Leu Asn Phe

168 <210> SEQ ID NO: 6

169 <211> LENGTH: 99

170 <212> TYPE: PRT

171 <213> ORGANISM: Human immunodeficiency virus type 1

173 <400> SEQUENCE: 6

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174 Pro Gln Ile Thr Leu Asn Gln Arg Pro Leu Val Thr Ile Lys Ile Gly
175   1           5           10           15
177 Gly Gln Leu Lys Lys Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
178           20           25           30
180 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
181           35           40           45
183 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
184           50           55           60
186 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
187   65           70           75           80
189 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
190           85           90           95

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192 Leu Asn Phe

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197 <211> LENGTH: 99

198 <212> TYPE: PRT

199 <213> ORGANISM: Human immunodeficiency virus type 1

201 <400> SEQUENCE: 7

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205 Gly Gln Leu Lys Glu Ala Leu Leu Asn Thr Gly Ala Asp Asp Thr Val
206           20           25           30
208 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
209           35           40           45
211 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
212           50           55           60
214 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
215   65           70           75           80
217 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
218           85           90           95

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229 <400> SEQUENCE: 8
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231   1           5           10           15
233 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
234           20           25           30
236 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Arg
237           35           40           45
239 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
240           50           55           60
242 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
243   65           70           75           80
245 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
246           85           90           95
248 Leu Asn Phe
252 <210> SEQ ID NO: 9
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254 <212> TYPE: PRT
255 <213> ORGANISM: Human immunodeficiency virus type 1
257 <400> SEQUENCE: 9
258 Pro Gln Ile Thr Leu Asn Gln Arg Pro Leu Val Thr Ile Lys Ile Gly
259   1           5           10           15
261 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
262           20           25           30
264 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
265           35           40           45
267 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
268           50           55           60
270 Glu Ile Cys Gly His Lys Ala Ile Ser Thr Val Leu Val Gly Pro Thr
271   65           70           75           80
273 Pro Val Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
274           85           90           95
276 Leu Asn Phe
280 <210> SEQ ID NO: 10
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282 <212> TYPE: PRT
283 <213> ORGANISM: Human immunodeficiency virus type 1
285 <400> SEQUENCE: 10
286 Pro Gln Ile Thr Leu Asn Gln Arg Pro Leu Val Thr Ile Lys Ile Gly
287   1           5           10           15
289 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
290           20           25           30
292 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
293           35           40           45
295 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile

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296      50      55      60
298 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
299 65      70      75      80
301 Pro Ile Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
302      85      90      95
304 Leu Asn Phe
308 <210> SEQ ID NO: 11
309 <211> LENGTH: 99
310 <212> TYPE: PRT
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315 1      5      10      15
317 Gly Gln Leu Lys Glu Ala Leu Leu Asp Thr Gly Ala Asp Asp Thr Val
318      20      25      30
320 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Lys Pro Lys Met Ile Gly
321      35      40      45
323 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
324 50      55      60
326 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
327 65      70      75      80
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346      20      25      30
348 Leu Glu Glu Met Asn Leu Pro Gly Arg Trp Arg Pro Lys Met Ile Gly
349      35      40      45
351 Gly Ile Gly Gly Phe Ile Lys Val Arg Gln Tyr Asp Gln Ile Leu Ile
352 50      55      60
354 Glu Ile Cys Gly His Lys Ala Ile Gly Thr Val Leu Val Gly Pro Thr
355 65      70      75      80
357 Pro Ile Asn Ile Ile Gly Arg Asn Leu Leu Thr Gln Ile Gly Cys Thr
358      85      90      95
360 Leu Asn Phe
364 <210> SEQ ID NO: 13
365 <211> LENGTH: 99
366 <212> TYPE: PRT
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369 <400> SEQUENCE: 13
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VERIFICATION SUMMARY

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